

Year 2005

Air Quality Division

ANNUAL AIR EMISSIONS INVENTORY QUESTIONNAIRE

For Facilites Permitted to Operate a Crematory

Instructions

The 2005 Annual Emissions Inventory Questionnaire includes 4 forms that are required to be completed and submitted to the Air Quality Division. Instructions for each form are included below. Upon completion, submit the forms along with the signature by the Responsible Official of the facility within 90 days of receipt of a letter from the Department.

FORM 1: Facility General Information

SECTION I thru III: Complete all fields as requested.

FORM 2: Equipment, Stack, & Process Data

Equipment List: List all equipment data including the dry cleaning unit and boiler, that is operated at the facility. Include the

Authorization To Operate (ATO) number for all the permitted equipment. Indicate, if not available.

Stack Information: Provide details of each stack.

Process Data: Provide details on Cremation Processes.

FORM 3: Emissions Data

Input the process rate for each crematory unit and the operational hours for each stack.

These calculations include emissions of the cremation process and emissions of fuel usage.

Once data is inputted, the formulas are set to complete the calculations. Therefore, do not move or change

any of the fields or colums. If moved the results will be wrong calculations.

FORM 4: Summary & Certification

A summarization of all the emissions by each pollutant will be listed within this form. All reports submitted to the Department should be certified true and accurate by the Responsible Official of the facility. This person is the owner or operator of the facility. If there is a change of the Responsible Official of the facility, please notify the

Department with an additional letter stating the change.

The completed questionnaire should be submitted to the following address:

Arizona Department of Environmental Quality
Attention: Darlene Celaya, Emission Inventory Team
Air Quality Division, Compliance Section 3415A-3
1110 West Washington Street
Phoenix, AZ 85007

If you have any question or have difficulty completing this form, please contact Darlene Celaya at (602) 771-7662.

	FORM 1: FACILITY GENERAL INFORMATION	YEAR 2005	
SECTION I: Plant Identification	n & Mailing Information		
Customer Name:			
Diago Names		Place ID:	
Mailing Address:	City:	State:	Zip:
County:			
Phone:	Fax:		
Permit #/LTF #		General Permit: Yes □	No 🗆
SECTION II: El Contact			
El Contact Name:		Title:	
Telephone:		Fax:	
SECTION III: Confidential Requ	uest		
	tues §49-432 and §49-201, do you claim the Emissions Invento entory are confidential along with a brief explanation:	ry data submittal confidential. If yes	
	Yes □ No □		

Equipment Details	Cremator #1	Cremator #2
Maximum Charging Rate (lb/hr)		
Actual Hours Operated (hours/year)		
Emission Control Device		
Equipment ID		
ATO#		

Stack Information	Stack #1	Stack #2
Height (feet)		
Diameter (feet)		
Velocity (feet/second)		
Exhaust Gas Temperature (F)		
Flow Rate (actual cubic feet per minute)		

Process Data	Cremator #1	Cremator #2
Number of cremations		
Average # of hours per cremation cycle		
Total number of hours operated for the year 2005		
Average weight of cremation (pounds/year)		
Process Rate = (# of cremations) x (average weight of cremation) / 2000 tons/year		

CREMATORY TOTAL EMISSIONS

(A) Cremator	(B) Process Rate tons/year	Pollutants	(C) Emission Factor (pounds/ ton)	Cremator 1 Emissions = [(B)x(C)]/2000 tons/year	Cremator 2 Emissions = [(B)x(C)]/2000 tons/year	Total Emissions = (Stack 1 + Stack 2 tons/year
		PM	4.67			
1		PM-10	3.04			
		PM-2.5	2.022			
		NOx	5.93			
2		SOx	2.66			
		CO	3.12			
		HCL	1.26			
		HF	0.0103			
		2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.25E-09			
		Benzene	0.00501			
		Benzo(a)anthracene	0.000000208			
		Benzo(a)pyrene	0.00000057			
		Benzo(b)fluoranthene	0.00000734			
		Chrysene	0.00000983			
		Dibenz(a,h)anthracene	0.0000002			
		Dioxins/Furans (PCDD/PCDF)	0.00000092			
		Fluorene	0.00000655			
		Indeno(1.2.3-cd)pyrene	0.000000243			
		Naphthalene	0.00108			
		Toluene	0.0431			
		Xylenes	0.0258			
		Arsenic	0.00062			
		Beryllium	0.0000217			
		Cadmium	0.000175			
		Cobalt	0.0000882			
		Chromium	0.000583			
		Hexavalent Chromium	0.000213			
		Mercury	0.052			
		Nickel	0.000602			
		Lead	0.00104			
		Antimony	0.000564			
		Selenium	0.00069			
		Acetaldehyde	0.00162			
		Formaldehyde	. • • • • •	I	I	1

Pollutant	Tonnage (tons per year)
Particulate Matter (PM)	
Particulate Matter Less Than 2.5 Microns (PM2.5)	
Particulate Matter Less Than 10 Microns (PM10)	
Nitrogen Oxides (NOx)	
Sulfur Oxides (SOx)	
Carbon Monoxide (CO)	
Hazard Air Pollutants (HAPs)	

YEAR 2005

Date:

FORM 4: SUMMARY & CERTIFICATION

as public record.

Signature of Responsible Official:

Print Name:

Title: